

Bo01 PLANNING PRECEDENT



Location
Western harbor, Malmö, Sweden

Population
2,343 residents

Client
City of Malmö

Urban Designers
Renzo Piano, Christoph Kolhbecker

Design Period
1998 - 2001

Overview
Bo01 is a mixed-use development in the docklands of Malmö, Sweden. It became the subject of an international housing exhibition intended to showcase sustainable planning and building technologies while providing socially supportive spaces in an environmentally conscientious manner.

The plan of the long thin waterfront site is based on a modified, irregular grid, broken up by small parks, plazas, water-retention ponds, and gardens. Larger buildings form the perimeter edge and shield the interior from the windy conditions that prevail here. Smaller buildings bring a refined, human scale to the interior.

100% Renewable Energy
Energy is produced via photovoltaic solar panels on homes and a wind turbine on the north end of the harbor area. A heat pump that extracts heat from a natural underground reservoir delivers heating to most of the homes in the district.

Stormwater Management
Rainwater is diverted with above ground gutters with waterfalls and ponds along the way to buffer and purify the water. Green roofs also help to reduce the amount of water runoff when it rains.

Solid Waste Management
Organic waste is collected in homes and then pumped to an anaerobic digestion chamber where it is treated with bacteria to produce methane. The methane is then used to power public buses or produce heat and electricity. Non-organic waste is sent via vacuum tubes to a central facility where it is burned or recycled.

Sustainable Transportation
Bo01 is located little more than a mile from central Malmö; the University of Malmö is barely a mile. Given this proximity and an extensive walking and bike path system, Bo01 residents own fewer cars, drive less, and walk and bike more than the average Malmö resident. In addition, all Bo01 residents are within 1,500 feet of a bus stop with busses operating frequently.

Green Points
Bo01 is home to its own ecosystem of plant and animal life thanks to the developers including at least 10 of the 35 “green point” options as defined by Malmö’s Green Point rating system. These consist of things like green roofs, nesting shelves in facades, and gardens in the courtyard.



Bo01 sits on the waterfront of the Swedish city of Malmö
Photo: Lab 3



Bo01 has a marina close by, another advantage of its proximity to the water
Photo: Stefan Anderberg



The riverfront area that separates Bo01 from the rest of Malmö
Photo: Stephen Messenger



The waterfront boardwalk area is a popular relaxation spot
Photo: Henric Barnhall



Buffer ponds help to both manage stormwater runoff and filter the water
Photo: City of Malmö



Coastline homes of Bo01 overlook the Baltic Sea
Photo: atelier GROENBLAUW



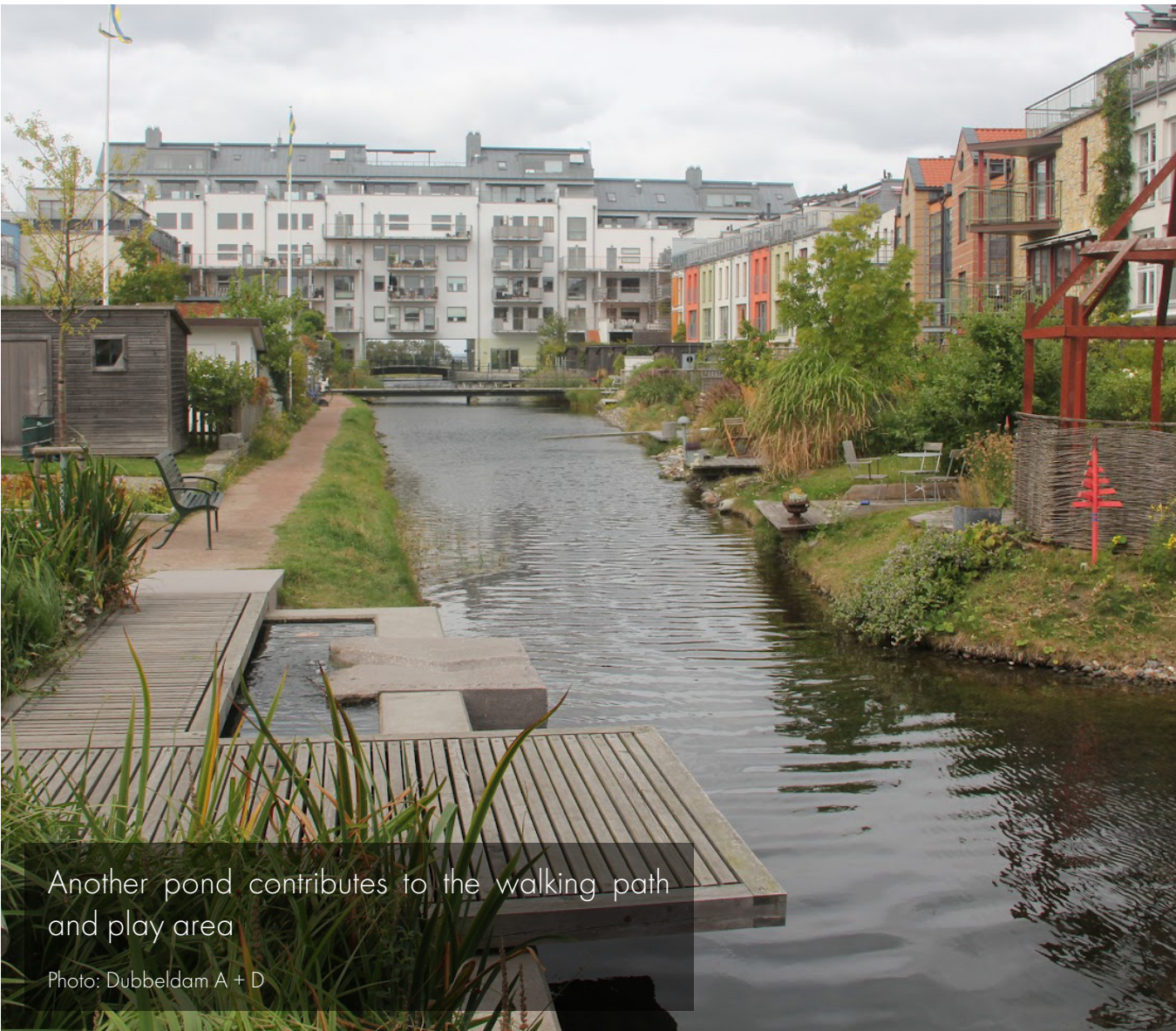
The Turning Torso by Santiago Calatrava is a nearby landmark
Photo: Santiago Calatrava Architects & Engineers



Typical row housing of Bo01 with bikes, a primary form of transportation for residents
Photo: L. Del Bando



Neighborhood courtyard of Bo01 shows additional water ponds
Photo: Jens Lindhe



Another pond contributes to the walking path and play area
Photo: Dubbelcom A + D